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E7.4-10350
CR-137035

Monthly Report
to
National Aeronautics and Space
Administration

E74-10350) [DEVELOP TECHNIQUES AND
PROCEDURES, USING MULTISPECTRAL SYSTEMS,
TO IDENTIFY FROM REMOTELY SENSED DATA
THE PHYSICAL AND THERMAL (South Dakota
State Univ.) 2 p HC \$4.00 CSCL 08F

N74-18959

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G3/13

Contract No. NAS 9-13337

Period Ending March 1, 1974

Remote Sensing Institute
South Dakota State University
Brookings, South Dakota 57006

3.1 Report of work as identified in Ex. A (SOW) --- Contract NAS 9-13337

3.1 Progress Reports

a. Overall status ---

The ground data used for assessing evapotranspiration (ET) is being reduced to a usable format and analyzed for ET predictions. Aircraft data from both the C-130 and RB-57 flight have been partially received and catalogued. Data products such as the multispectral scanner tapes from the C-130 were requested. The RAD/SCAT data from the C-130 flight was not over the appropriate area; however, the track did contain irrigated and non-irrigated land so a future analysis may be possible.

b. Recommendations ----

None at this time.

c. Expected accomplishments ----

The ground data cataloging and analyses will be completed and reduction of aircraft data will be pursued. We will hopefully have a project review with our PIMO leader during March.

d. A readily.....results.....

None at this time.

e. Summary outlook ----

The ground-based ET assessments were conducted for seven different physical settings. Successful C-130, RB-57, and SKYLAB (not previewed at this time) data are anticipated. The analysis will include a multistage approach for assessing ET of agricultural land.

f. Travel summary ----

None expected.